US006142292A

United States Patent [19]

Patterson

[11] **Patent Number: 6,142,292**

[45] **Date of Patent: Nov. 7, 2000**

[54] **METHOD AND APPARATUS TO PREVENT A BEARING FROM ROTATING IN A BEARING HOUSING**

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[21] Appl. No.: **09/274,178**

[22] Filed: **Mar. 23, 1999**

[51] **Int. Cl.**[7] **B65B 27/20**; F16C 33/04

[52] **U.S. Cl.** **198/770**; 384/295; 384/428

[58] **Field of Search** 198/770; 384/295, 384/296, 428, 438

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[57] **ABSTRACT**

The bearing includes a cylindrical bearing, such as a sleeve bearing or a ball bearing, having a central opening for receiving a shaft and having a first radial surface. The assembly includes a bearing housing having a surrounding wall which defines an open distal end and an open base end. The housing has a second radial surface extending inwardly from the surrounding wall. The assembly includes a support wall arranged adjacent to the open base end of the housing. The assembly includes a plurality of threaded fasteners which are inserted through holes provided on the bearing housing and are threaded onto threaded apertures provided in or behind the support wall. Tightening of the fasteners draws the bearing housing to the support wall. A spring, such as a Belleville washer, is placed between the support wall and the bearing to resiliently press the first radial surface against the second radial surface. When the housing and support wall are drawn tight the spring is compressed under great force. This presses the first and second radial surfaces together under great force. Thus, there is an axially force between the first and second radial surface and the washer and the trailing end of the bearing and the support plate which fixes the bearing against any relative rotary movement between the bearing and the housing.

24 Claims, 3 Drawing Sheets